CW#55&HW#: Intro to Similar Triangles

Geometry

Due: Wednesday, Dec. 9th

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP:\_\_\_\_\_

FAILURE TO WRITE IN COMPELTE SENTENCES OR SHOW ALL WORK WILL RESULT IN LASALLE.

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| --- | --- |
| Objective: You will be able to explain how similarity and congruence are different | |
| In your own words, describe similarity. | In your own words, describe congruence. |
| How is similarity different than congruence?   |  | | --- | |  | |  | | |

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| Objective: You will be able to construct a definition of proportional. |
| ../../../../../Desktop/Similar%20Triangles%20W%20numbers.png   |  |  |  | | --- | --- | --- | | Measure of side (*ΔABC*) | Measure of side (*ΔDEF*) | Ratio | | *AB =* | *DE =* |  | | *BC =* | *EF =* |  | | *CA =* | *FD =* |  | |
| Proportional means… |

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| --- | --- | --- | --- |
| Directions: Use the sentence stem below to explain when you know two figures are similar.   |  | | --- | | I know two figures are similar when | |  | |  | |

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| Objective: You will be able to apply your definition of similar figures to determine if two triangles are similar or not. | |
| Directions: State if the triangles are similar or not. Show work to support your answer. | |
| ../../../../../Desktop/Screen%20Shot%202015-12-06%20at%205.16.48%20PM | ../../../../../Desktop/Screen%20Shot%202015-12-06%20at%205.16.55%20PM |
| ../../../../../Desktop/Screen%20Shot%202015-12-06%20at%205.17.06%20PM | ../../../../../Desktop/Screen%20Shot%202015-12-06%20at%205.17.14%20PM |
| ../../../../../Desktop/Screen%20Shot%202015-12-06%20at%205.17.19%20PM | ../../../../../Desktop/Screen%20Shot%202015-12-06%20at%205.23.15%20PM |

|  |  |
| --- | --- |
| Directions: Use the given lengths to find the proportional relationship between the two similar triangles. Use the proportional relationship to label all the sides of the triangles. | |
| |  |  | | --- | --- | | *AB = 3* | *DE= 1* | | *BC = 7* | *EF=* | | *CA = 7* | *FD =* | | |  |  | | --- | --- | | *AB = 3* | *DE=* | | *BC = 5* | *EF= 10* | | *CA = 7* | *FD =* | |
| |  |  | | --- | --- | | *AB = 10* | *DE=* | | *BC = 4* | *EF=* | | *CA = 10* | *FD = 5* | | |  |  | | --- | --- | | *AB = 15* | *DE=* | | *BC = 7* | *EF=* | | *CA = 20* | *FD = 5* | |
| |  |  | | --- | --- | | *AE= 2* | *AB = 14* | | *ED = 5* | *BC =* | | *DA = 3* | *CA =* | | |  |  | | --- | --- | | *AB = 3* | *DE=* | | *BC = 5* | *EF=* | | *CA = 4* | *FD = 40* | |